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How the U.S. Federal Aviation Administration Has Helped to Develop and Support GAIN-Type Programs

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Promote Industry Safety Initiatives

- **Flight Operations Quality Assurance (FOQA)**
(flight data recorder information)
- **Aviation Safety Action Programs (ASAP)**
(reports from pilots and others)



Help Reduce Legal Obstacles

- **Legislation to protect voluntarily provided safety data from public disclosure**
- **Policy statement/regulation regarding enforcement concerns**



Promote Government Safety Initiatives

- **ICAO 32nd Assembly, 1998**
 - Resolution to improve safety through enhanced collection, analysis, and dissemination of safety information.
- **ICAO AIG, 1999 (Annex 13 Recommendations)**
 - Establish non-punitive reporting systems
 - Promote establishment of safety information sharing networks
 - Facilitate free exchange of safety information



Maintain GAIN Program Office

- **Provide technical and administrative support to GAIN Steering Committee and Working Groups**
- **Currently includes 4 technical staff from the Office of System Safety and 3 contractor personnel**



Conduct Analytical Tool Research

- **Applying FOQA tool to the analysis of TRACON radar data to conduct ATC safety studies**
- **Developing a computer model that uses flight data recorder exceedance information to assess risk**
- **Applying tool developed for nuclear power plant industry to identify accident/incident precursors in safety event data**



Analytical Tool Research (cont'd)

- **Developing text mining tool to support analysis of ASAP and other narrative information**
- **Developing system safety performance measures using flight data recorder and ATC radar information**